

8.3.4 Normalized Annual End Uses of Water in Select Supermarkets in Western United States (1)

<u>Fixture/End Use</u>	<u>Range of Water Use</u> <u>(gal/SF)</u>
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Toilets/Urinals	190 - 320
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Other/Misc. Indoor (2)	895 - 1,405
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Cooling	2,190 - 3,390
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Total	3,560 - 5,075
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Building Size (SF)	3,8000 - 66,000
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Logged average <u>daily use (thousand gal)</u>	Indoor peak instantaneous <u>demand (gpm)</u>
9.71 - 14.33	29.7 - 58.8

<u>Benchmarking Values for Supermarkets (3)</u>	<u>N</u>	<u>25th Percentile of Users</u>
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Indoor Use with Cooling, gal./SF/year	38	52 - 64
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Indoor Use with Cooling, gal./SF/daily transaction	38	9 - 16
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Note(s): 1) Water use data for the buildings was collected over a few days. Estimates of annual use were created by accounting for seasonal use and other variables, billing data, and interviews with building managers. 2) Includes water for sinks, spraying vegetables, cleaning, etc. 3) The study derived efficiency benchmarks by analyzing measured data and audit data. The benchmark was set at the lower 25th percentile of users.

Source(s): American Water Works Association Research Foundation, Commercial and Institutional End Uses of Water, DeOreo, William et. al., 2000